

# RESULTS Training

## Core Module 8

### Forest Cover and Treed Retention Reporting


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## RESULTS

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UserName: IDIRIMTSOI    Environment: PROD    Version: 4.12.0

### Welcome to the RESULTS System



2014-03-28

RESULTS(Reporting Silviculture Updates and Landstatus Tracking System) is a web-based application that provides clients and government staff direct on-line access to Provincial spatially enabled silviculture information. RESULTS will track and report silviculture accomplishments, administer approved stocking standards and evaluate free-growing progress on obligations.

Link to:

- [Application Website](#)

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January 2016

# Communication & Evaluation

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Ask questions using CHAT

Ensure that you direct to Entire Audience – so everyone can read the question

If there is some else that is sitting in the session but no registered, please add their Name and email on the Evaluation form

Please complete the Evaluation Form – automatically available appears Immediately after session

You will receive email confirmation to a RESULTS Testing website.

If you are a new user or require access renewal, you must pass the test in order to obtain your RESULTS access. Please only complete the test after you completed all required modules for your required authority.

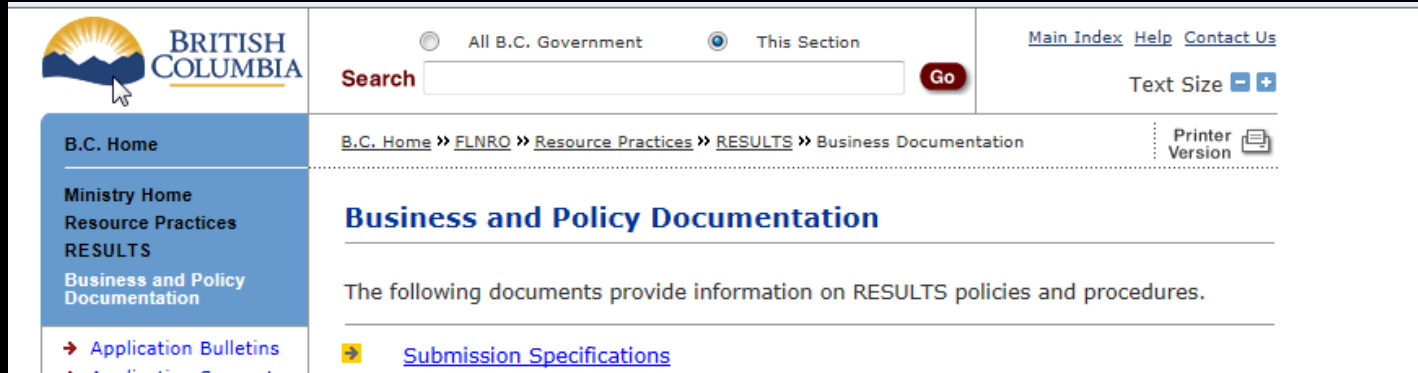
# Outline of Session

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- Business Guidelines
- Terms and Definitions
- New Requirements
- Forest Cover Reporting – Timing
- Forest Cover Reporting – Structure
- Retention Reporting Matrix
- Common Forest Cover Reporting VRIMS Issues
- Forest Cover Reporting Examples

# Business Guidance

<http://www.for.gov.bc.ca/his/results/business.htm>



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Printer Version

## Business and Policy Documentation

The following documents provide information on RESULTS policies and procedures.

[Submission Specifications](#)

## Submission Specifications

- [CF Memo \(RISS-Is\)](#) – Provincial memo from Jim Snetsinger, announcing RESULTS Information Submission Specifications: Licensee Submissions, a document that outlines the form and manner of reporting data to RESULTS.
- **NEW RESULTS Information Submission Specifications: Licensee Submissions (Edition 4)** – Edition 4 of the Silviculture Information Submission Guidebook describes submission specifications for electronic submissions to RESULTS via the Electronic Submission Framework;

Revisions to Edition 4 in response to input received by the Coastal Region Implementation Team (CRIT) and by users via the NRS Service Desk and Resource Practices Branch. **As per direction from the Deputy Minister to make basal area a mandatory requirement, Section 5.7.2.2. has been amended.** Other minor revisions have been implemented in order to increase clarity.

- **NEW RESULTS Information Submission Specifications: Licensee Submissions (Edition 4 - Memo)**
- **RESULTS Information Submission Specification - gf - Edition 4** - May 2014 **NEW** – Requirements for preparing and submitting information pertaining to government funded silviculture activities (treatments and surveys) to RESULTS.
- [Electronic submissions required](#) – Deputy minister letter notifying licensees that all silviculture reports and amendments are to be electronically submitted to the ministry as of June 1, 2005.



Ministry of Forests, Lands and Natural Resource Operations

## RESULTS INFORMATION SUBMISSION SPECIFICATIONS

Form and Manner of Reporting

(Licensee Submissions)

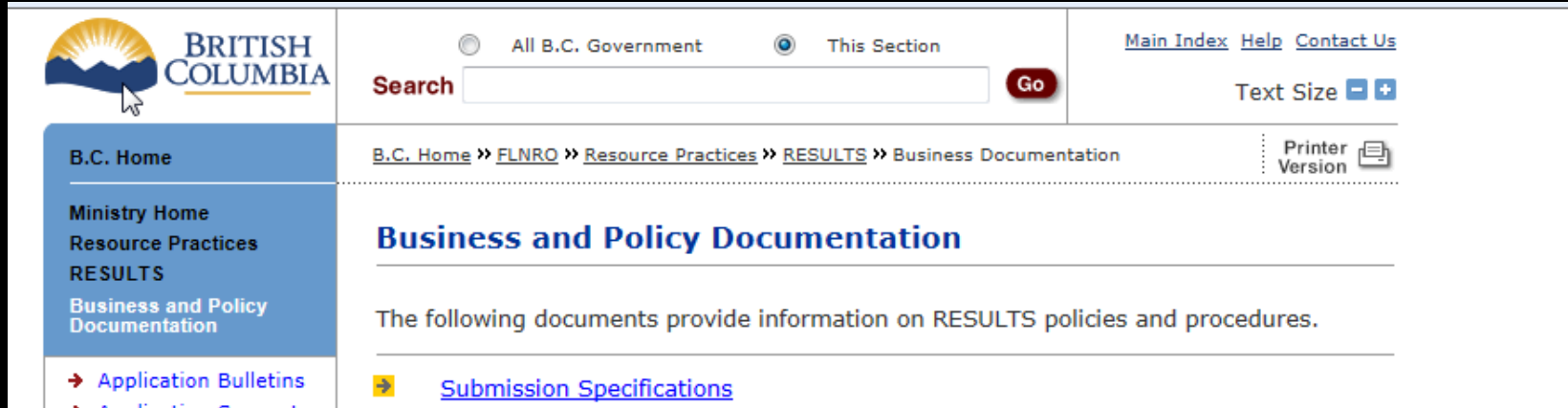
4<sup>th</sup> Edition

May, 2015

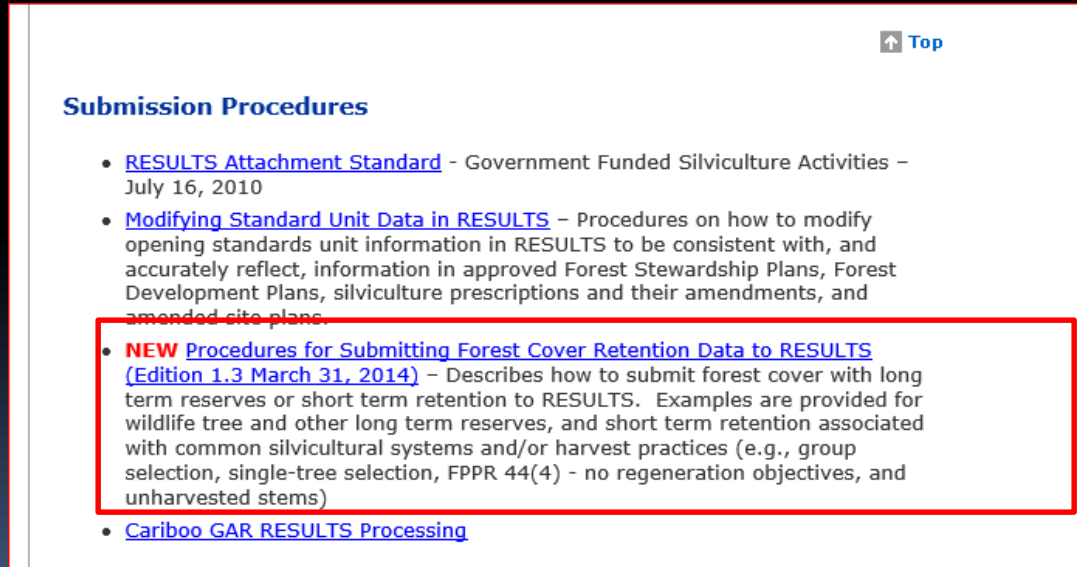
Detailed Forest Cover Requirements Section 5.7

# Business Guidance

<http://www.for.gov.bc.ca/his/results/business.htm>



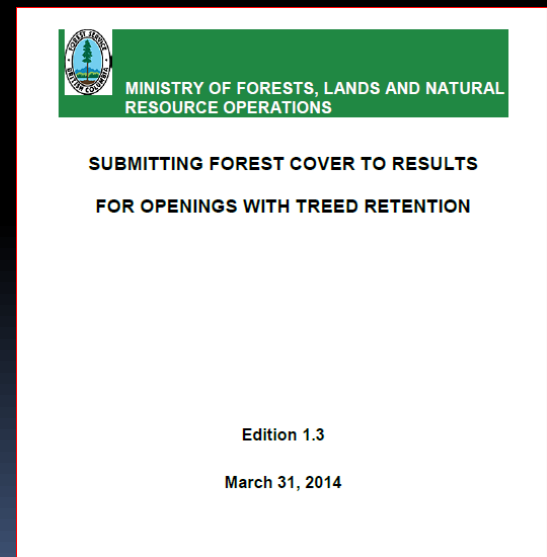
The screenshot shows the top navigation area of the British Columbia government website. On the left is the British Columbia logo. In the center is a search bar with a 'Go' button. On the right are links for 'Main Index', 'Help', and 'Contact Us', along with a 'Text Size' control. Below the search bar is a breadcrumb trail: 'B.C. Home >> FLNRO >> Resource Practices >> RESULTS >> Business Documentation'. A 'Printer Version' icon is also present. The main heading is 'Business and Policy Documentation', followed by the text: 'The following documents provide information on RESULTS policies and procedures.' A link for 'Submission Specifications' is highlighted with a yellow arrow icon.



The screenshot shows the 'Submission Procedures' page. At the top right is a 'Top' link. The page title is 'Submission Procedures'. A list of links is provided:

- [RESULTS Attachment Standard](#) - Government Funded Silviculture Activities - July 16, 2010
- [Modifying Standard Unit Data in RESULTS](#) - Procedures on how to modify opening standards unit information in RESULTS to be consistent with, and accurately reflect, information in approved Forest Stewardship Plans, Forest Development Plans, silviculture prescriptions and their amendments, and amended site plans.
- **NEW [Procedures for Submitting Forest Cover Retention Data to RESULTS \(Edition 1.3 March 31, 2014\)](#)** - Describes how to submit forest cover with long term reserves or short term retention to RESULTS. Examples are provided for wildlife tree and other long term reserves, and short term retention associated with common silvicultural systems and/or harvest practices (e.g., group selection, single-tree selection, FPPR 44(4) - no regeneration objectives, and unharvested stems)
- [Cariboo GAR RESULTS Processing](#)

The third link is highlighted with a red rectangular box.



The screenshot shows the cover page of a document. At the top left is the British Columbia logo. To its right is a green banner with the text 'MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS'. Below the banner is the title: 'SUBMITTING FOREST COVER TO RESULTS FOR OPENINGS WITH TREED RETENTION'. At the bottom right, it says 'Edition 1.3' and 'March 31, 2014'.

# RESULTS – Forest Cover - Preface

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- Forest cover data submitted to RESULTS must be accurate and adhere to data submission standards as per RISS
- RISS forest cover is ensure consistency in reporting using existing RESULTS structure
- Must contain spatial (ESF only)
- Must be submitted for the entire opening (not partial)
- RESULTS forest cover is used to update Vegetation Inventory Maps (VRIMS)
- Data is used to support Timber Supply Review Process and other analysis

# RESULTS – Forest Cover Submission Structure

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- Forest Cover reporting data structure was originally designed for clear-cut system
- Evolution of different silvicultural and harvest systems but system's nomenclature remain static due to increase cost and downstream cost required to change systems (Ministry's and licensees).
- No ability to report silvicultural system by forest cover polygon and instead use of multi-layer forest cover and reserve type and reserve objective codes.
- No change to forest cover reporting structure – too much downstream impacts on systems (RESULTS, clients, ESF schema and VRIMS).
- Reporting based on best fit due to limitations of system

# Forest Cover Reporting Timing – Reforestation Obligation (Licensee)

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Forest Cover is submitted before June 1 for each area:

- Where harvesting has been completed before March 31 of that year
- Has met regeneration date up to March 31 of that year
- Has not met regeneration requirements but the regeneration date has passed prior to March 31 of that year
- Has met free growing date requirements up to March 31 of that year and to fulfil THSPR obligation
- Free growing declaration has been made in accordance to FRPA 107 and FPPR 97; or,
- Has not met free growing requirements but the free growing date has passed prior to March 31 of that year



# Forest Cover Reporting Timing – No Reforestation Obligation

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Forest cover submitted as part of declaration for areas subject to requirements under FPPR 44(4) is submitted no sooner than 12 months following the completion of harvest.

WLPPR 34(3) A woodlot licence holder who harvest for a number of reasons referred to subsection (2)(d) or (e) must ensure that, for a period 12 months after completion of harvest, the area on which timber harvesting was carried out confirms to the stocking standards specified in section 12 for the area.

eg. Commercial thinning or intermediate cuts

This is when stocking standards are identified as “No Regen Obligations”

# Terms and Definitions – Residuals & Reserves

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- *Long term residuals* or *reserves* – stands retained for an entire rotational planning cycle. “Reserves” are understood to not be available for harvesting until next rotational cycle of the stand
- *Short term residuals* or *retention* stands are retained (whether or not they are eventually harvested in another entry) for a portion of a current planning cycle.

# Terms and Definitions – RESULTS Reserve Type Code

## Reserve Type Code\*:

- “G” - *Group Reserves* – a defined, mapped patch of trees, generally does not have NAR
- “D” - *Dispersed* – trees that are retained individually or in unmapped groups (small clusters <0.25ha), but are enclosed within the boundaries of the mapped polygon designated as “dispersed reserves” and is within a NAR.

\* RESULTS contain records with old records with obsolete reserve codes – no conversion was conducted.

# Reserve Reporting – Reserve Type Code “G”

## “G” - Group Reserves\*

- do not have harvest entries or silviculture responsibilities, and are mapped and reported
- Polygon components are submitted
- Polygons with inventory component, if supplied, are used to update VRI
- No silviculture component is required
- Area often reported as even-aged with residual stems comprise of the entire reserves

\* Report the best information available for residual stems (recent survey, timber cruise, or pre-existing inventory label citing the appropriate reference year). Not required to survey residual component of reserves with no SU).

# Reserve Reporting – Reserve Type Code “D”

## “D” - Dispersed Reserves

- have harvesting and is associated with an SU within which the denuded and residual treed portions are not individually mapped
- boundary of entire polygon is mapped, and the denuded and residual portions of the polygon are described in the inventory and silviculture components
- reported as multi-layer stands where dispersed retention is  $>5\text{m}^2$  per ha\* of residual basal area associated with a SU. Minimum two layers are reported: the denuded layer and the layer containing the residual stems

\* dispersed retention levels  $< 5\text{m}^2$  per ha do not need to be reported, although it is considered best management practice to do so if the retention is linked to a FSP results or strategy, or is associated with a silvicultural system (eg. seed tree)

# Terms and Definitions – RESULTS Reserve Objective Type

*Reserve Objective Code* - Refers to the management goal of the retained trees.

RESULTS has only one Reserve Objective Code option for entry even though reserves may serve multiple objectives.

- TIM (Timber Management) residuals that are considered to short term retention and available for subsequent harvest entry prior to the end of the current rotation planning cycle (whether they are actually harvested or not).
  - TIM requires Re-entry year.
- Any reserve objective code other than “TIM” is considered long term retention and not available for subsequent harvest entry until after the next rotational planning cycle.
  - Reserves constrained for entire rotation, use primary constraining objective (ie. WTR, RMA or any code other than TIM)
  - This will be used for calculation for WTR% (FPPR s.66)

# Reserve Reporting - Mapping

- Group reserves 0.25ha\* or greater including fully external reserves
- Dispersed reserves mapped as a part of a standards unit/polygon (tree portions are not individually mapped).
- Reserves from 0.1 to .24ha are tracked. If exact locations are mapped they may be reported as individual “Group” reserves\*. If the exact locations of these reserves are not mapped, they are reported as “Dispersed” reserves within an SU and the polygons within which they are located, although the individual trees themselves are not mapped.

\* RESULTS can accommodate mappable units of 0.1ha.

# New reporting requirement – Basal Area

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Chief Forester added Basal Area as a mandatory requirement as of July 8 2015 (see RISS Section 5.7.2.2)

Basal Area reporting is required:

- If Basal Area/ha (usually as a percentage of pre-harvest BA/hectares) is a part of the stocking standard, retained BA/ha is included in the inventory and silviculture components.
- openings with  $>5\text{m}^2/\text{ha}$  of overstorey Layer 1 (Mature). Basal Area MUST be reported for inventory component. This requirement will start as of for the 2016 reporting period.



# Forest Cover Reporting Requirements

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- All polygons within the opening are reported with all Standards Units and all polygons excluded from Standards Units
- Polygons not surveyed (or treated) are identified with their locations and attributes with reference year (e.g Group Reserves)
- Entire opening must be submitted with spatial for all polygons.

# Forest Cover Reporting Components

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Forest Cover polygon component required for all polygons (NAR and non NAR)

Inventory and silviculture component required for all polygons with SUs

Non-mapped components are areas too small to map and are removed from the NAR within a given polygon using Non-Mapped component.

# Forest Cover – Polygon Component

## Forest Cover Attributes (all polygons)

Standards Unit (SU) ID	Polygon (Licensee) ID
Area	
Reference Year	Re-entry Year
Stocking Status	Stocking Type
Reserve Type	Reserve Objective
Site Index	Site Index Source
Tree Cover Pattern	

# Forest Cover – Inventory Component (identical)

Forest Cover Attribute – Inventory Component  
(for all areas are subject to stocking standards, where the silviculture and inventory components are identical)

Layer (1 [even-aged], 2, 3, 4 [multi-layer])	Total Stems
Total Well Spaced*	Well Spaced*
Free Growing*	Average Total Basal Area per ha (>5m <sup>2</sup> /ha)
Species	Species Percent**
Average Age	Average Height
Damage Agent	Incidence Percent
Incidence Area	

\* Where only a Mature layer is present, report the average crop tree basal area per ha lieu of Total Well Spaced (TWS), Well Spaced (WS) and Free growing (FG) . Applicable for situations where leave tree stands does not specify WS and FG trees for mature layer.

\*\* In relation to basal area for Layer 1; and to stem count for other layers.

# Forest Cover – Inventory Component (not identical; areas with no SUs )

Forest Cover Attribute – Inventory Component  
(for all areas not subject to stocking standards; or for areas subject to stocking standards where the silviculture and inventory components are not identical)

Layer (1 [even-aged], 1, 2, 3, 4 [multi-layer])	Total
Average Total Basal Area per ha* (>5m <sup>2</sup> /ha)	
Species	Species Percent*
Average Age	Average Height
Average Height	Damage Agent
Incidence Percent	Incidence Area

\* In relation to basal area for Layer 1; and to stem count for other layers

# Forest Cover – Silviculture Component

Forest Cover Attribute – Silviculture Component  
(for all areas subject to stocking standards and inventory components are not identical)

Layer (S [even-aged], 1S, 2S, 3S, 4S [multi-layer])	Total Well Spaced*
Well-Spaced*	Free growing*
Average Crop Tree Basal Area per ha***	
Species**	Species Percent
Average Age	Average Height
Damage Agent	Incidence Percent
Incidence Area	

\* Where only a Mature layer is present, report the average crop tree basal area per ha lieu of Total Well Spaced (TWS), Well Spaced (WS) and Free growing (FG) . Applicable for situations where leave tree stands does not specify WS and FG trees for mature layer.

\*\* In relation to basal area for 1S; and to stem count for other layers

\*\*\* Basal area if  $>5m^2/ha$  or is a part of stocking standard

# Terms and Definitions – Multi-Layer Attributes

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- Report Stocking Status by polygon for multi-layer stands for the cohort layer next in line for harvest – predominant layer with the highest site occupancy
- Dispersed reserves are reported as multi-layer stands where level of dispersed retention is  $>5\text{m}^2$  per ha of residual basal area and are associated with a SU
- Site Index recorded for the leading species in the layer with highest volume or layer which is next to be harvested.
- Crown Closure is percentage of ground area covered by the vertically projected crowns of the tree cover for each inventory component the layer within the polygon

# Terms and Definitions – Non Productive Areas

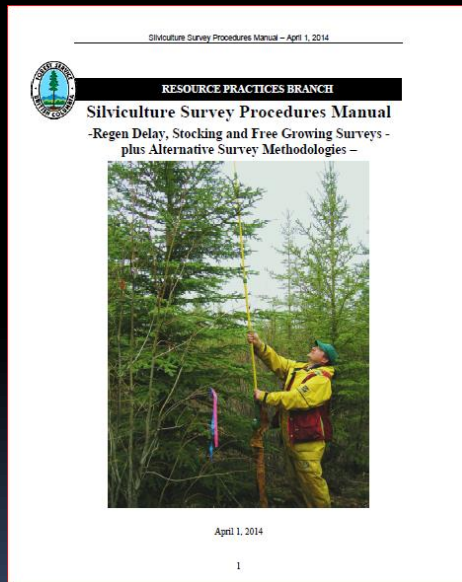
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- Include non-productive areas, including roads, are mapped if it meets the minimum polygon size of 0.25ha. If it does not meeting minimum polygon size, the area may be reported as a non-mapped component.
- Include Polygon ID, area, stocking status, stocking type, and reference year. If species is recorded, age and height and inventory component only is required.
- Once reported at harvest, the reference year is the same at regeneration and free growing if the stocking has not changed.



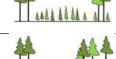



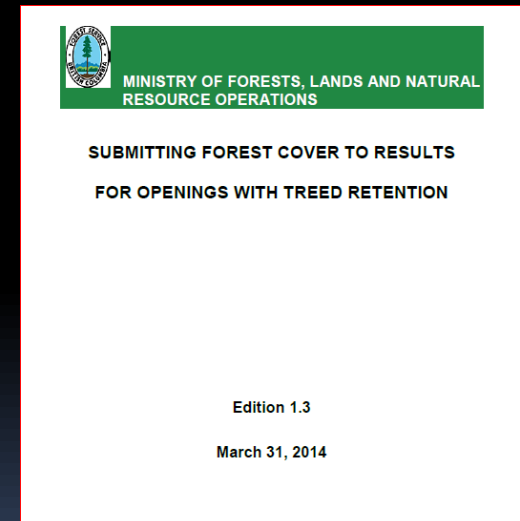
# Retention Openings – Guidance Matrix for Reporting

- Links Silviculture Survey Manual with Treed Retention Submission into RESULTS by Section based on applied examples.



Guidance Matrix for reporting Retention Openings into RESULTS

RETENTION OPENINGS – with > 5 m <sup>2</sup> / ha. Basal Area Retention					
Silviculture Survey Manual Guidance <i>Section referenced below in red</i>			Treed Retention Submission into RESULTS Guidance (ii) <i>Section referenced below in red</i>		
Steps	1 →	2 →	3 →	4a or	4b
Conifer Management Regime	Planned &/or Resultant Stand Structure <i>Sec 1.2</i>	Stand Structure Example Illustrations	Recommended Survey Methodology	Long Term Retention <sup>a</sup> – Reserves <i>Sec 4.1</i>	Short Term Retention <sup>a</sup> – part of a Silv-System <i>Sec 4.2</i>
1a Obligation Timber Priority					
i) Single Entry Even-Aged	Complex Vertical Structure Dispersed Retention <sup>a</sup> – Low BA only (suggested < 10m <sup>2</sup> Interior)		Layered <i>Sec 9.2.2</i>	Dispersed <i>Sec 4.1.2 &amp; 4.1.3</i>	Unharvested Stems <i>Sec 4.2.4</i>
Multiple Entry Uneven-Aged					
ii) Single Tree Selection	Complex Vertical Structure Dispersed Retention IDP only		Multi-storey <i>Sec 9.2.1</i>		Single Tree <i>Sec 4.2.1</i>
iii) Group Selection	Complex Horizontal Structure Group Retention <sup>a</sup> – Clear Cut Openings <sup>a</sup>		Clearcut Method <i>Sec 7 &amp; 8</i>		Group Selection <i>Sec 4.2.2</i>
iv) Group Selection	Complex Horizontal Structure Group Retention – Small Patch ↑ Edge Effect <sup>a</sup>		Small Scale Openings Method <i>Sec 9.3.5</i>		Group Selection <i>Sec 4.2.2</i>







<https://www.for.gov.bc.ca/hfp/silviculture/FINAL%20Retention%20Reporting%20Matrix.pdf>  
[https://www.for.gov.bc.ca/hfp/silviculture/Silviculture%20Survey%20Procedures%20Manual\\_FINAL\\_2014.pdf](https://www.for.gov.bc.ca/hfp/silviculture/Silviculture%20Survey%20Procedures%20Manual_FINAL_2014.pdf)  
[https://www.for.gov.bc.ca/his/results/Forest\\_Cover\\_Retention\\_Submissions\\_March%202011%202014\\_FINAL.pdf](https://www.for.gov.bc.ca/his/results/Forest_Cover_Retention_Submissions_March%202011%202014_FINAL.pdf)

# Retention Openings – Guidance Matrix for Reporting



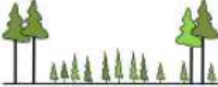


<https://www.for.gov.bc.ca/hfp/silviculture/FINAL%20Retention%20Reporting%20Matrix.pdf>

## Guidance Matrix for reporting Retention Openings into RESULTS

RETENTION OPENINGS – with > 5 m <sup>2</sup> / ha. Basal Area Retention						
Silviculture Survey Manual Guidance <i>Section referenced below in red</i>				Treed Retention Submission into RESULTS Guidance (ii) <i>Section referenced below in red</i>		
Steps	1 →	2 →	3 →	4a	or 4b	
	Conifer Management Regime	Planned &/or Resultant Stand Structure <i>Sec 1.2</i>	Stand Structure Example Illustrations	Recommended Survey Methodology	Long Term Retention <sup>5</sup> – Reserves <i>Sec 4.1</i>	Short Term Retention <sup>6</sup> – part of a Silv System <i>Sec 4.2</i>
<b>1a</b>	<b>Obligation Timber Priority</b>					
	i) Single Entry Even –Aged	Complex Vertical Structure Dispersed Retention <sup>3</sup> - <b>Low BA only</b> (suggested < 10m <sup>2</sup> Interior)	 <a href="#">Photo Images 1</a>	Layered <i>Sec 9.2.2</i>	Dispersed <i>Sec 4.1.2 &amp; 4.1.3</i>	Unharvested Stems <i>Sec 4.2.4</i>
	<b>Multiple Entry Uneven-Aged</b>					
	ii) Single Tree Selection	Complex Vertical Structure Dispersed Retention <b>IDF only</b>	 <a href="#">Photo Images 2</a>	Multi-storey <i>Sec 9.2.1</i>		Single Tree <i>Sec 4.2.1</i>
	iii) Group Selection	Complex Horizontal Structure Group Retention <sup>2</sup> – <b>Clear Cut Openings<sup>1</sup></b>		Clearcut Method <i>Sec 7 &amp; 8</i>		Group Selection <i>Sec 4.2.2</i>
	iv) Group Selection	Complex Horizontal Structure Group Retention – <b>Small Patch ↑Edge Effect<sup>2</sup></b>	 <a href="#">Photo Images 3</a>	Small Scale Openings Method <i>Sec 9.3.5</i>		Group Selection <i>Sec 4.2.2</i>

# Retention Openings – Guidance Matrix for Reporting

<https://www.for.gov.bc.ca/hfp/silviculture/FINAL%20Retention%20Reporting%20Matrix.pdf>

RETENTION OPENINGS – with > 5 m <sup>2</sup> / ha. Basal Area Retention						
Silviculture Survey Manual Guidance <i>Section referenced below in red</i>			Treed Retention Submission into RESULTS Guidance (ii) <i>Section referenced below in red</i>			
Steps	1 →	2 →	3 →	4a	or 4b	
<b>1b</b>	<b>Obligation</b> <i>Non-Timber Priority</i>					
	<b>i) Single Entry Even -Aged</b>	Complex Vertical Structure Dispersed Retention < 20 m <sup>2</sup> Interior < 40 m <sup>2</sup> Coast	 <a href="#">Photo Images 4</a>	SEDRSS or DFP <i>Sec 9.2.4</i>	Dispersed <i>Sec 4.1.2 &amp; 4.1.3</i>	Unharvested Stems <i>Sec 4.2.4</i>
	<b>Multiple Entry Uneven-Aged</b>					
	<b>ii) Single Tree Selection</b>	Complex Vertical Structure Dispersed Retention <i>(IDF only)</i>		Multi-storey <i>Sec 9.2.1</i>		Single Tree <i>Sec 4.2.1</i>
	<b>iii) Group Selection</b>	Complex Horizontal Structure Group Retention	 <a href="#">Photo Images 5</a>	Clearcut Method <i>Sec 7 &amp; 8 OR</i> Small Scale Openings Method <i>Sec 9.3.5</i>		Group Selection <i>4.2.2</i>
<b>1c</b>	<b>No Regen Obligation</b> ≥ 20 m <sup>2</sup> Interior ≥ 40 m <sup>2</sup> Coast					
	<b>i) Intermediate Cut, (WF Interface &amp; Ecosystem Restoration)</b>	Complex Horizontal Structure Dispersed Retention	 <a href="#">Photo Images 6</a>	Commercial Thin <i>Sec 9.3.2.1</i>		No Regen Objectives <i>Sec 4.2.3</i>
	<b>ii) Commercial Thin</b>	Complex Horizontal Structure Dispersed Retention	 <a href="#">Photo Images 7</a>	Commercial Thin <i>Sec 9.3.2.1</i>		No Regen Objectives <i>Sec 4.2.3</i>

# Forest Cover Reporting and VRIMS

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RESULTS Forest Cover Reporting is used for VRIMS updates.

Poor Quality Data impacts on VRIMS reporting in terms of increased workload in the Quality Assurance process

“G” will remain for polygon only (no dissolving) unless inventory component is provided.

“D” will get dissolved and update will be reflected based on forest cover attribution.

# Error Forest Cover reporting

## Reserve coding

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- Important to correctly identify “G” vs. “D”
- “D” Dispersed must have SU and must have forest cover inventory/silviculture components
- “G” must not be used for any NAR areas (no NSR, IMM), incorrectly classified and should not be included in WTP%
- Reserve Polygons missing “G” coding will get dissolved in VRI process and not be included as apart of WTP%. Must ensure “G” and objective codes are correctly used. (Reserves will not count and be considered for available for harvest).
- Reserve codes should not be on NP or Roads. Will not be dissolved during VRI update and incorrectly identified as WTP.

# Error Forest Cover reporting Impact to VRIMS

## Attribute errors

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- Age/height discrepancies caused by reversal of numbers, typos
- Incomplete attributes, most often associated with reserve polygons.
  - Only provide best attribute information for inventory only for MAT/NAT.
  - If information is not better, then only provide for polygon MAT/NAT component only for the reserve (then no dissolving and retain previous inventory)
- Incorrect usage of MAT when it is IMM.
- Missing residual stems will be missed in inventory and cannot contribute to future timber supply.
- “D” reserve code polygon with residual stems must be fully attributed.
- Missing total stems with NAR
- NP/UNN to be used for roads and landings only and will be dissolved. NP/NAT must have correct attributes.
- Reference year must be later than harvesting date.

# Error Forest Cover reporting Impact to VRIMS

## Spatial errors

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- “Slivers and overlaps (along road tubes) will cause VRIMS process to fail. Ensure that features with shared boundary, the vertices must be identical in both geometries to ensure no slivers or overlaps.
- Links between spatial polygons and attributes are incorrect.
- Forest cover spatial does not match imagery
- Forest cover overlaps between openings.



# Examples of Treed Retention Reporting

Caveat: examples are what is in RESULTS  
but may not meet new standards

Goal: Consistency in FC reporting





# Simple Clearcut Even Age



# Simple Clearcut Even Age

Opening ID: 1455155 One SU; CLEAR, CCRES; FC Poly A-IMM; R – Group/OTH; W-G/WTR



Last Action Date: 2013-07-25 Comments: [No](#) [Forest Cover Map](#) 5 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code		Stems/ha			
				Gross	Net	Stat	Type				Total	Total Well Spaced	Well Spaced	Free Growing
A	A		I	16	16	IMM	ART	2012	CW		962			
A	A		S	16	16	IMM	ART	2012	CW			0	900	0
	R		I	1.3	1.3	MAT	NAT	2012	CW	HW				
	W		I	1.5	1.5	MAT	NAT	2012	CW	HW				
	X			1	1	NP	UNN	2012						

# Simple Clearcut Even Age

Opening ID: 1455155 One SU; CLEAR, CCRES; FC Poly A-IMM; R – Group/OTH; W-G/WTR

Last Action Date: 2013-07-25 11:31:57 AM  
 SU: A  
 Gross Area(ha): 16  
 Reference Year: 2012  
 Site Class:  
 Stocking Status: IMM - Immature  
 Tree Cover Pattern:  
 Comments: No  
 Forest Cover ID: 2932289 Polygon: A  
 Net Area(ha): 16  
 Reserve Objective:  
 Reserve Type:  
 Site Index: 24 Site Index Source: E - SI from Biogeoclimatic Ecosystem Classification  
 Stocking Type: ART - Artificial SI Species: CW - western redcedar  
 Re-Entry Year:

Non Mapped Area

id	Area	Status	Type
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Layer I Inventory Layer

Species	%	Average Age	Average Height
1 CW - western redcedar	100	1	0.3

Crown Closure: 1 Basal Area  
 Stems/ha Total 962 Total Well Spaced Well Spaced Free Growing

Damage Agent

	%	Area
--	---	------

Layer S Silviculture Layer - even aged

Species	%	Average Age	Average Height
1 CW - western redcedar	100	1	0.3

Crown Closure: Basal Area  
 Stems/ha Total Total Well Spaced 0 Well Spaced 900 Free Growing 0

Last Action Date: 2013-07-25 11:31:57 AM  
 SU:  
 Gross Area(ha): 1.3  
 Reference Year: 2012  
 Site Class:  
 Stocking Status: MAT - Mature  
 Tree Cover Pattern:  
 Comments: No  
 Forest Cover ID: 2932290 Polygon: R  
 Net Area(ha): 1.3  
 Reserve Objective: OTH - Other  
 Reserve Type: G - Group  
 Site Index Source:  
 Site Index:  
 Stocking Type: NAT - Natural SI Species: CW - western redcedar  
 Re-Entry Year:

Non Mapped Area

id	Area	Status	Type
----	------	--------	------

Layer I Inventory Layer

Species	%	Average Age	Average Height
1 CW - western redcedar	50	250	38
2 HW - western hemlock	50		

Crown Closure: 60 Basal Area  
 Stems/ha Total Total Well Spaced Well Spaced Free Growing



Last Action Date: 2013-07-25 11:31:57 AM  
 SU:  
 Gross Area(ha): 1.5  
 Reference Year: 2012  
 Site Class:  
 Stocking Status: MAT - Mature  
 Tree Cover Pattern:  
 Comments: No  
 Forest Cover ID: 2932291 Polygon: W  
 Net Area(ha): 1.5  
 Reserve Objective: WTR - Wildlife Tree Retention Goals  
 Reserve Type: G - Group  
 Site Index Source:  
 Site Index:  
 Stocking Type: NAT - Natural SI Species: CW - western redcedar  
 Re-Entry Year:

Non Mapped Area

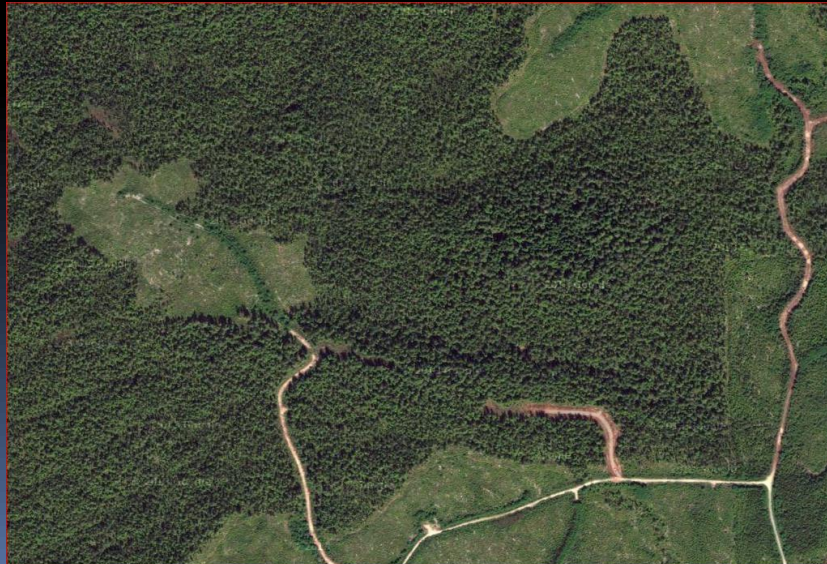
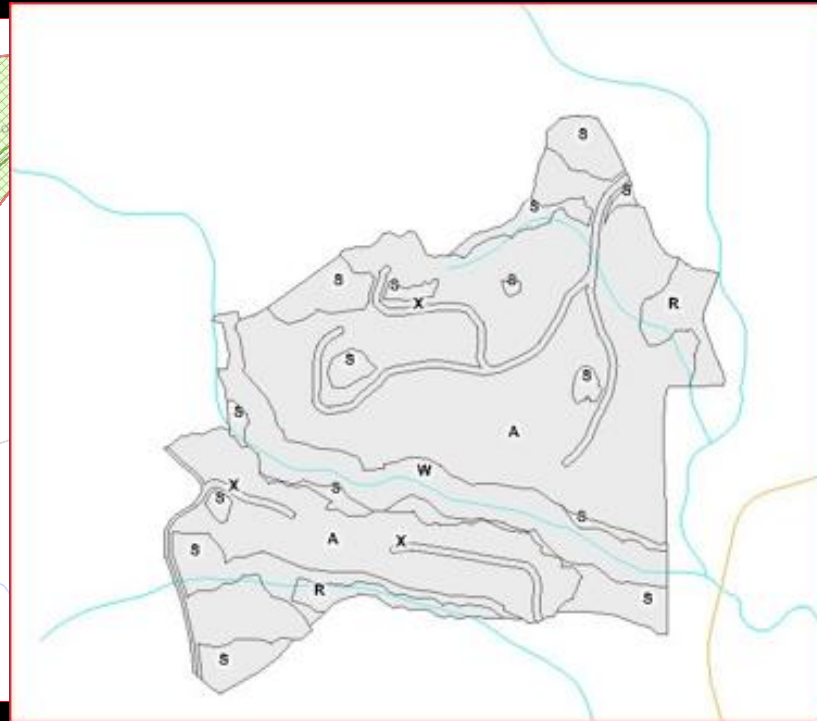
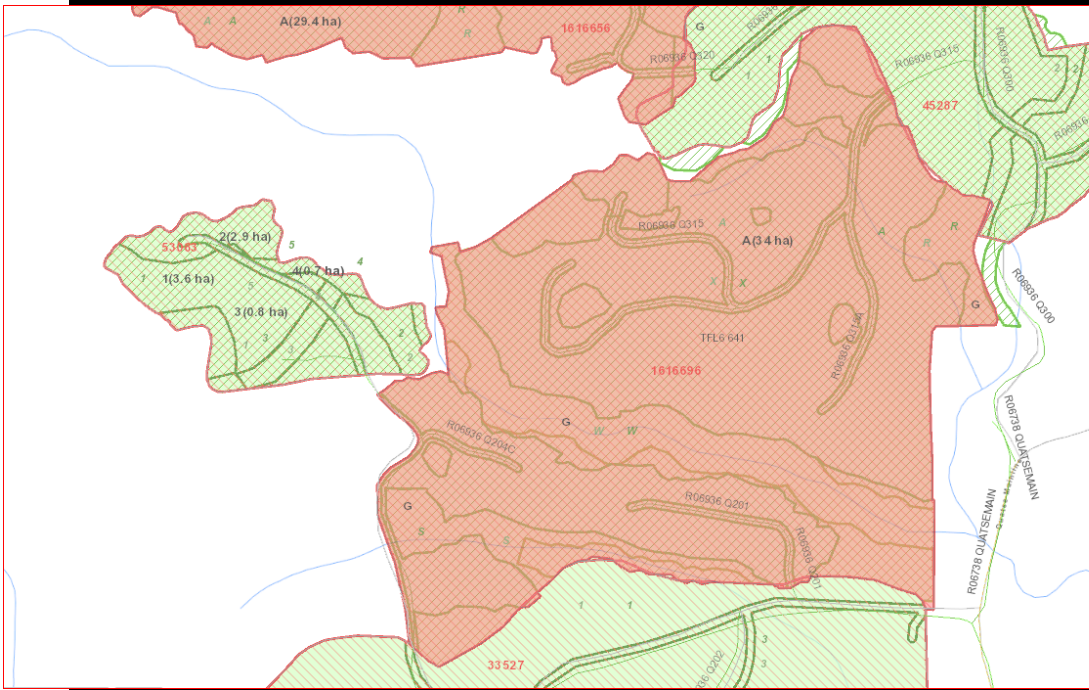
id	Area	Status	Type
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Layer I Inventory Layer

Species	%	Average Age	Average Height
1 CW - western redcedar	50	250	38
2 HW - western hemlock	50		

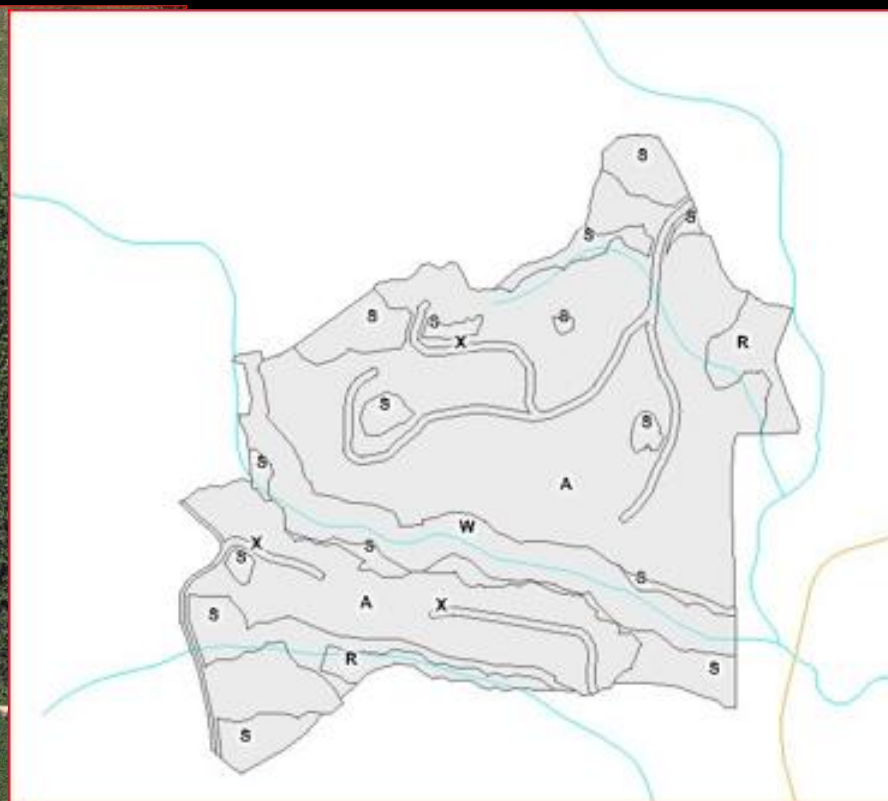
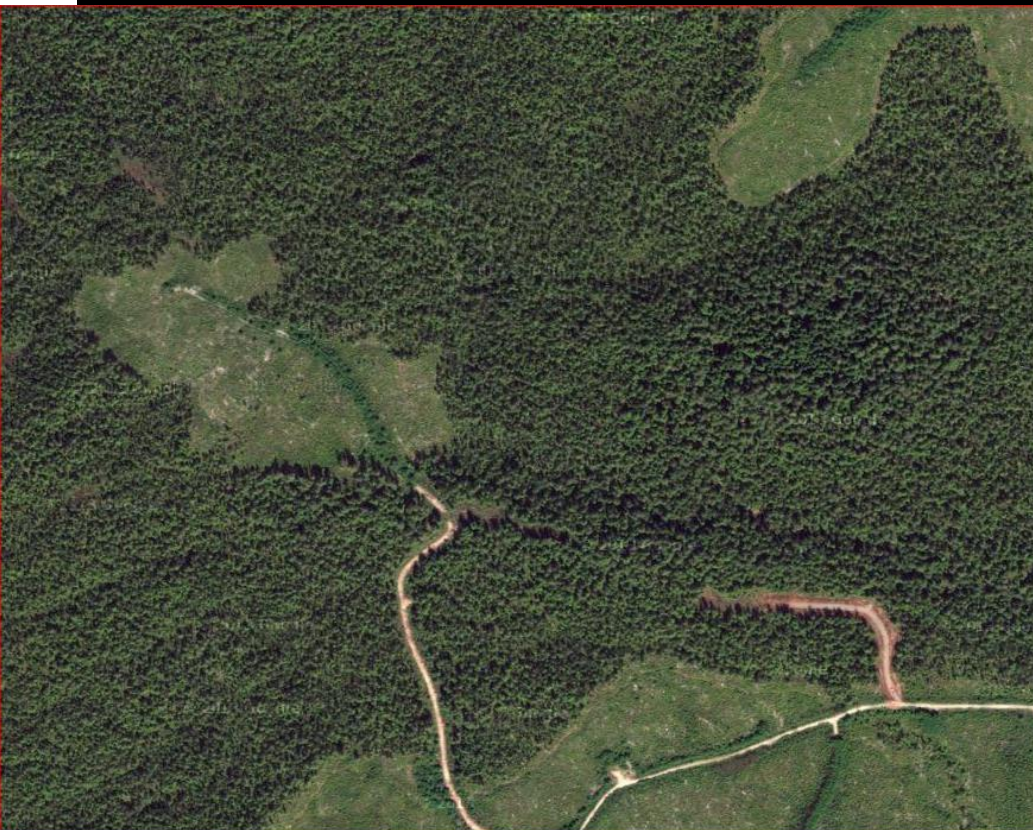
Crown Closure: 60 Basal Area  
 Stems/ha Total Total Well Spaced Well Spaced Free Growing

# Retention



# Retention

Opening ID: 1616696 One SU; Reten, "A" –NSR, "R"– G/WTR, "S" -G/WTP, "W"-G/TIM



Last Action Date: 2014-07-08 Comments: [No](#) [Forest Cover Map](#) 5 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code			Stems/ha			
				Gross	Net	Stat	Type					Total	Total Well Spaced	Well Spaced	Free Growing
A	A			34	34	NSR	PL	2013							
	R		I	2.3	2.3	MAT	NAT	2013	CW	HW	YC	200			
	S		I	8.8	8.8	MAT	NAT	2013	CW	HW	YC	200			
	W		I	5.6	5.6	MAT	NAT	2013	CW	HW	YC	200			
	X			2.7	2.7	NP	UNN	2013							

# Retention

Opening ID: 1616696 One SU; Reten, "A" -NSR, "R" - G/WTR, "S" -G/WTP, "W" -G/TIM

Poly "A" should come in as multi-layer at regen  
Should be "D" ???

Last Action Date:	2014-07-08 01:25:34 PM	Comments:	No
SU:	A	Forest Cover ID:	3112811
Gross Area(ha):	34	Net Area(ha):	34
Reference Year:	2013	Reserve Type:	N - No Reserve
Site Class:		Site Index:	23
Stocking Status:	NSR - Not Satisfactorily Restocked	Stocking Type:	PL - Plantable
Tree Cover Pattern:		SI Species:	CW - western redcedar
Non Mapped Area		Re-Entry Year:	

Last Action Date:	2014-07-08 01:25:38 PM	Comments:	No
SU:	S	Forest Cover ID:	3112808
Gross Area(ha):	8.8	Net Area(ha):	8.8
Reference Year:	2013	Reserve Type:	G - Group
Site Class:		Site Index:	16
Stocking Status:	MAT - Mature	Stocking Type:	NAT - Natural
Tree Cover Pattern:		SI Species:	CW - western redcedar
Non Mapped Area		Re-Entry Year:	

Last Action Date:	2014-07-08 01:25:38 PM	Comments:	No
SU:	R	Forest Cover ID:	3112810
Gross Area(ha):	2.3	Net Area(ha):	2.3
Reference Year:	2013	Reserve Type:	G - Group
Site Class:		Site Index:	16
Stocking Status:	MAT - Mature	Stocking Type:	NAT - Natural
Tree Cover Pattern:		SI Species:	CW - western redcedar
Non Mapped Area		Re-Entry Year:	

Species	%	Average Age	Average Height
1 CW - western redcedar	70	251	30
2 HW - western hemlock	20	251	30
3 YC - yellow-cedar	10	251	30

Species	%	Average Age	Average Height
1 CW - western redcedar	70	251	30
2 HW - western hemlock	20	251	30
3 YC - yellow-cedar	10	251	30

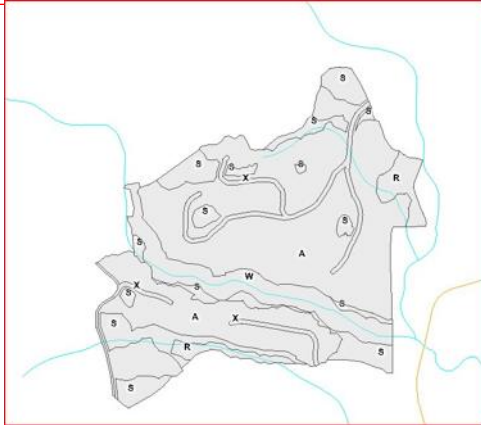
Crown Closure:	60	Basal Area	
Stems/ha Total	200	Total Well Spaced	
		Well Spaced	
		Free Growing	

Crown Closure:	60	Basal Area	
Stems/ha Total	200	Total Well Spaced	
		Well Spaced	
		Free Growing	

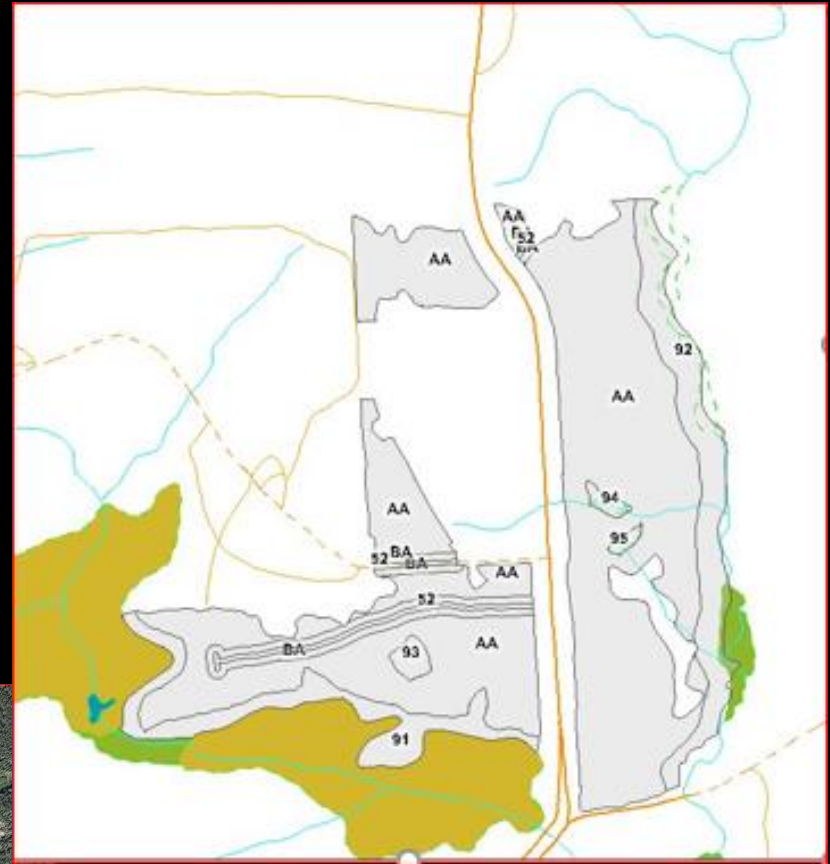
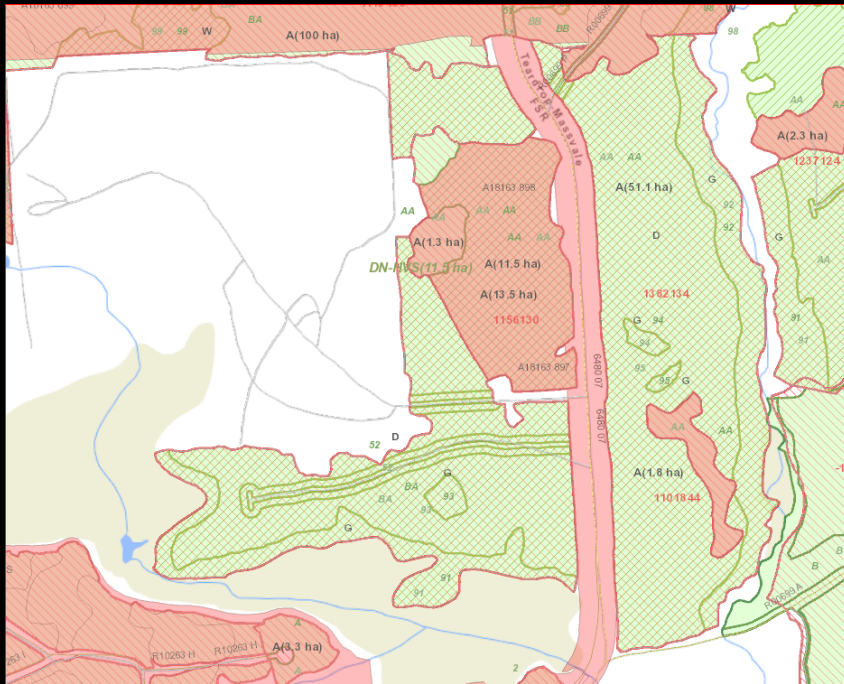
Last Action Date:	2014-07-08 01:25:38 PM	Comments:	No
SU:	W	Forest Cover ID:	3112809
Gross Area(ha):	5.6	Net Area(ha):	5.6
Reference Year:	2013	Reserve Type:	G - Group
Site Class:		Site Index:	16
Stocking Status:	MAT - Mature	Stocking Type:	NAT - Natural
Tree Cover Pattern:		SI Species:	CW - western redcedar
Non Mapped Area		Re-Entry Year:	

Species	%	Average Age	Average Height
1 CW - western redcedar	70	251	30
2 HW - western hemlock	20	251	30
3 YC - yellow-cedar	10	251	30

Crown Closure:	60	Basal Area	
Stems/ha Total	200	Total Well Spaced	
		Well Spaced	
		Free Growing	

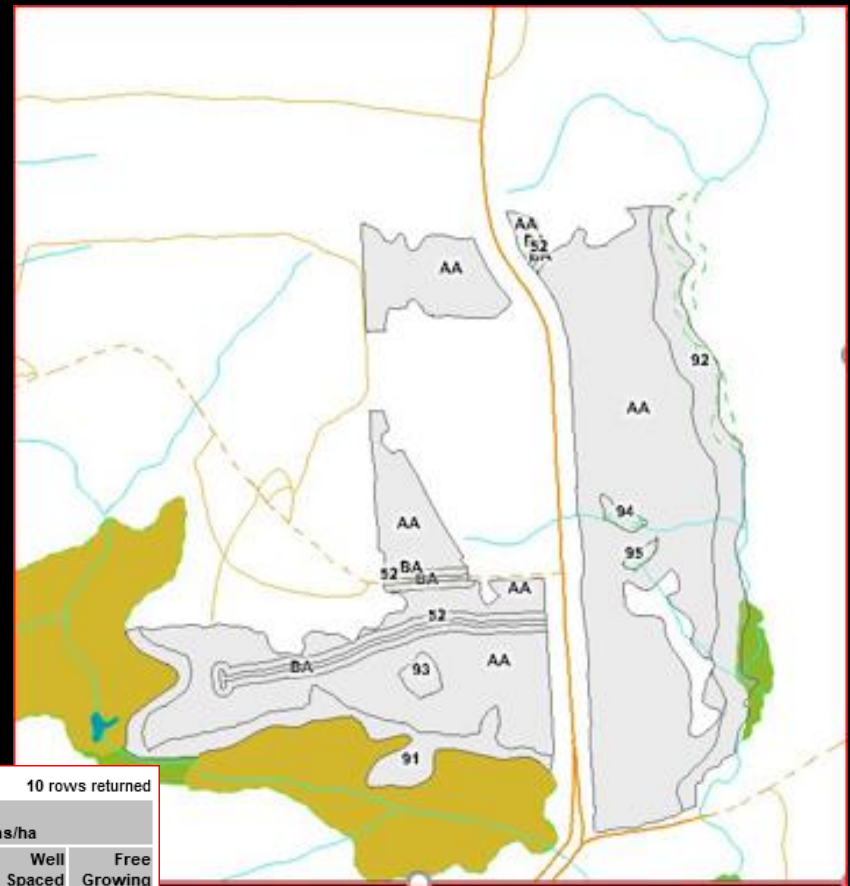


# Clearcut with Dispersed Reserves



# Clearcut with Dispersed Reserves

Opening ID: 1382134 Two SU, Clear, Poly "91-95" G/Bio, Poly "AA", "BA" D/WTR



10 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code	Stems/ha			
				Gross	Net	Stat	Type			Total	Total Well Spaced	Well Spaced	Free Growing
	52			.9	.9	NP	UNN	2010					
	91			4.9	4.9	MAT	NAT	2010					
	92			6.9	6.9	MAT	NAT	2010					
	93			.5	.5	MAT	NAT	2010					
	94			.3	.3	MAT	NAT	2010					
	95			.2	.2	MAT	NAT	2010					
A	AA		I	48.3	48.3	IMM	ART	2012	PLI	SX	1410	1200	
A	AA		S	48.3	48.3	IMM	ART	2012	PLI	SX		1410	
A	BA		I	2.8	2.8	IMM	ART	2013	PLI	SX	1475	1185	
A	BA		S	2.8	2.8	IMM	ART	2013	PLI	SX		1185	1185

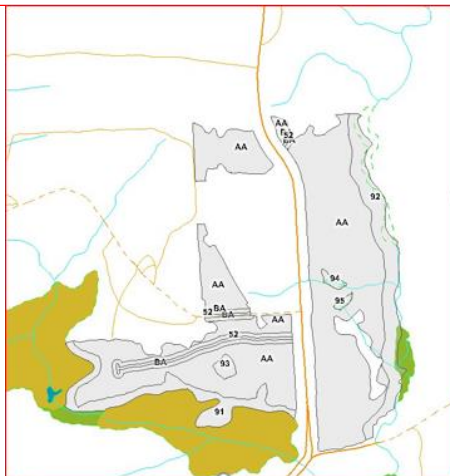


# Clearcut with Dispersed Reserves

## Opening ID: 1382134 Two SU, Clear, Poly "91-95" G/Bio, Poly "AA", "BA" D/WTR

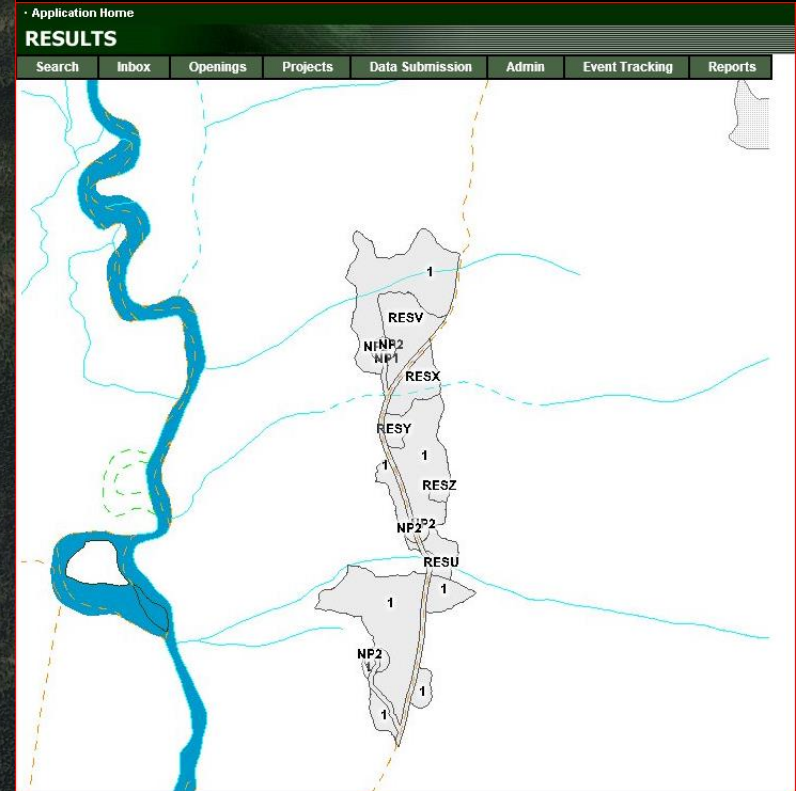
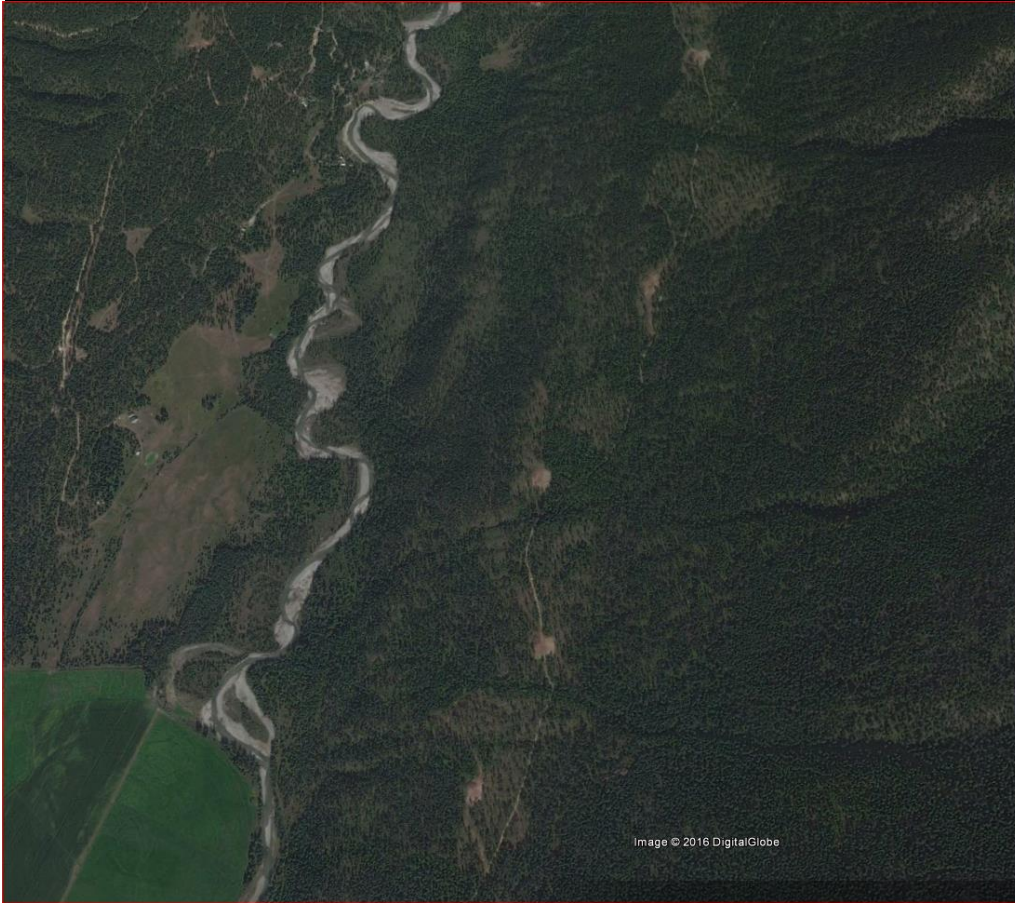
Last Action Date:	2014-05-29 01:12:46	Comments:	No
SU:	A	Forest Cover ID:	3100529
Gross Area(ha):	2.8	Net Area(ha):	2.8
Reference Year:	2013	Reserve Type:	D - Dispersed
Site Class:		Site Index:	21
Stocking Status:	IMM - Immature	Stocking Type:	ART - Artificial
Tree Cover Pattern:		SI Species:	PLI - lodgepole pine
		Re-Entry Year:	
<b>Non Mapped Area</b>			
<b>Id</b>	<b>Area</b>	<b>Status</b>	<b>Type</b>
<b>Layer I Inventory Layer</b>			
<b>Species</b>	<b>%</b>	<b>Average Age</b>	<b>Average Height</b>
1 PLI - lodgepole pine	72	1	0.2
2 SX - spruce hybrid	28	1	0.3
<b>Crown Closure:</b>			
<b>Stems/ha Total</b>	<b>Basal Area</b>	<b>Total Well Spaced</b>	<b>Free Growing</b>
1475	1185	Well Spaced	
<b>Damage Agent</b>			
	<b>%</b>	<b>Area</b>	
<b>Layer S Silviculture Layer - even aged</b>			
<b>Species</b>	<b>%</b>	<b>Average Age</b>	<b>Average Height</b>
1 PLI - lodgepole pine	72	1	0.2
2 SX - spruce hybrid	28	1	0.3
<b>Crown Closure:</b>			
<b>Stems/ha Total</b>	<b>Basal Area</b>	<b>Total Well Spaced</b>	<b>Free Growing</b>
1185	1185	Well Spaced	

Last Action Date:	2014-05-29 01:12:46	Comments:	No
SU:	A	Forest Cover ID:	3100528
Gross Area(ha):	48.3	Net Area(ha):	48.3
Reference Year:	2012	Reserve Type:	D - Dispersed
Site Class:		Site Index:	21
Stocking Status:	IMM - Immature	Stocking Type:	ART - Artificial
Tree Cover Pattern:		SI Species:	PLI - lodgepole pine
		Re-Entry Year:	
<b>Non Mapped Area</b>			
<b>Id</b>	<b>Area</b>	<b>Status</b>	<b>Type</b>
<b>Layer I Inventory Layer</b>			
<b>Species</b>	<b>%</b>	<b>Average Age</b>	<b>Average Height</b>
1 PLI - lodgepole pine	75	1	0.2
2 SX - spruce hybrid	25	1	0.3
<b>Crown Closure:</b>			
<b>Stems/ha Total</b>	<b>Basal Area</b>	<b>Total Well Spaced</b>	<b>Free Growing</b>
1410	1200	Well Spaced	
<b>Damage Agent</b>			
	<b>%</b>	<b>Area</b>	
<b>Layer S Silviculture Layer - even aged</b>			
<b>Species</b>	<b>%</b>	<b>Average Age</b>	<b>Average Height</b>
1 PLI - lodgepole pine	75	1	0.2
2 SX - spruce hybrid	25	1	0.3
<b>Crown Closure:</b>			
<b>Stems/ha Total</b>	<b>Basal Area</b>	<b>Total Well Spaced</b>	<b>Free Growing</b>
1410	1410	Well Spaced	



Last Action Date:	2014-05-29 01:12:20	Comments:	No
SU:		Forest Cover ID:	3100534
Gross Area(ha):	0.2	Net Area(ha):	0.2
Reference Year:	2010	Reserve Type:	G - Group
Site Class:		Site Index:	
Stocking Status:	MAT - Mature	Stocking Type:	NAT - Natural
Tree Cover Pattern:		SI Species:	PLI - lodgepole pine
		Re-Entry Year:	
		Polygon :	95
		Reserve Objective:	BIO - Biodiversity
		Site Index Source:	

# Clearcut with Dispersed Multi-Layer



# Clearcut with Dispersed Layer

Opening ID: 1595437 1 SU, CCRES, Poly "1"- D/OTH, Poly "RES U-Z"- G/WTR

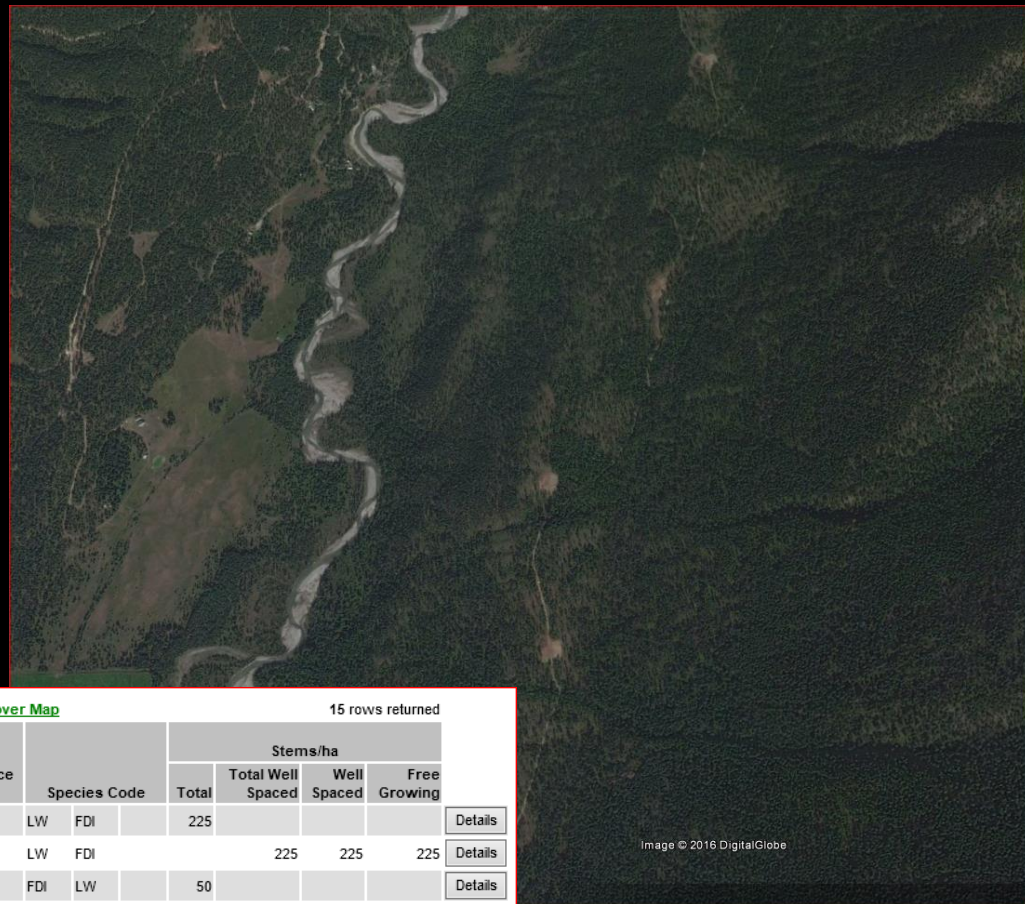
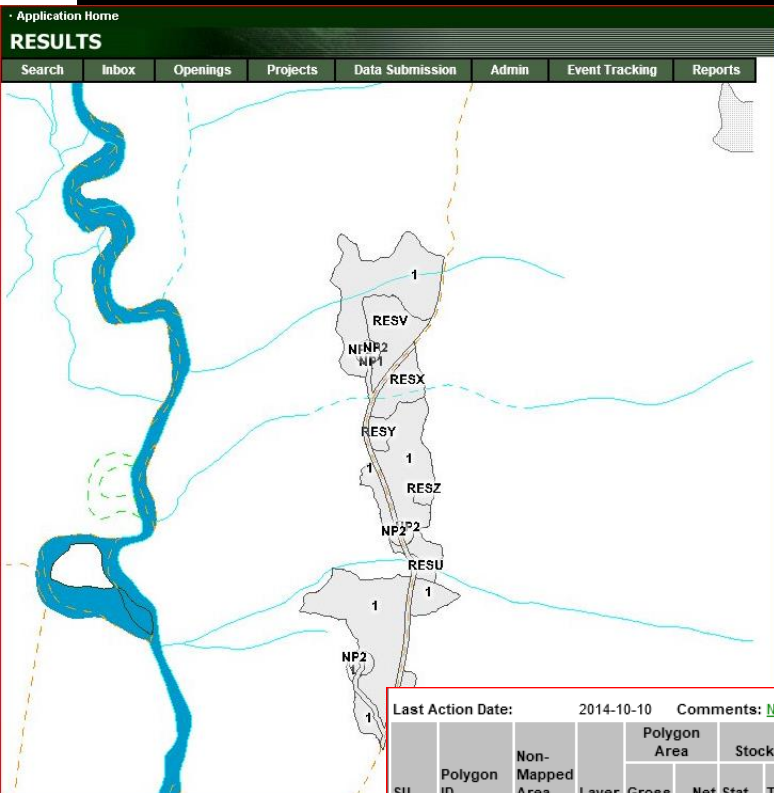


Image © 2016 DigitalGlobe

Last Action Date: 2014-10-10    Comments: [No](#)    [Forest Cover Map](#)    15 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code		Stems/ha				Details
				Gross	Net	Stat	Type		Total	Total Well Spaced	Well Spaced	Free Growing			
1	1		1	15.4	15.4	IMM	NAT	2014	LW	FDI	225				<a href="#">Details</a>
1	1		1S	15.4	15.4	IMM	NAT	2014	LW	FDI		225	225	225	<a href="#">Details</a>
1	1		2	15.4	15.4	IMM	NAT	2014	FDI	LW	50				<a href="#">Details</a>
1	1		2S	15.4	15.4	IMM	NAT	2014	FDI	LW		25	25	25	<a href="#">Details</a>
1	1		3	15.4	15.4	IMM	NAT	2014	FDI		363				<a href="#">Details</a>
1	1		3S	15.4	15.4	IMM	NAT	2014	FDI			113	113	113	<a href="#">Details</a>
1	1		4	15.4	15.4	IMM	NAT	2014	FDI		1675				<a href="#">Details</a>
1	1		4S	15.4	15.4	IMM	NAT	2014	FDI			238	238	0	<a href="#">Details</a>
	NP1			1.8	1.8	NP	UNN	2014							<a href="#">Details</a>
	NP2			0.7	0.7	NP	UNN	2014							<a href="#">Details</a>
	RESU		I	0.2	0.2	MAT	NAT	2014	FDI	LW	PLI	965			<a href="#">Details</a>
	RESV		I	2	2	MAT	NAT	2014	LW	FDI		546			<a href="#">Details</a>
	RESX		I	1.2	1.2	MAT	NAT	2014	LW	FDI	PLI	649			<a href="#">Details</a>
	RESY		I	0.3	0.3	MAT	NAT	2014	FDI	LW	PLI	974			<a href="#">Details</a>
	RESZ		I	0.2	0.2	MAT	NAT	2014	FDI	LW	PLI	974			<a href="#">Details</a>

# Clearcut with Dispersed Multi-Layer

Opening ID: 1595437 1 SU, CCRES, Poly "1" - D/OTH, Poly "RES U-Z" - G/WTR

Last Action Date: 2014-10-10 11:21:00 AM  
 SU: 1  
 Gross Area(ha): 15.4  
 Reference Year: 2014  
 Site Class:  
 Stocking Status: IMM - Immature  
 Tree Cover Pattern:  
 Comments: No  
 Forest Cover ID: 3145988  
 Net Area(ha): 15.4  
 Reserve Type: D - Dispersed  
 Site Index: 19  
 Stocking Type: NAT - Natural  
 Polygon: 1  
 Reserve Objective: OTH - Other  
 Site Index Source: E - SI from Biogeoclimatic Ecosystem Classification  
 SI Species: FDI - interior Douglas-fir  
 Re-Entry Year:

Non Mapped Area

Id	Area	Status	Type
----	------	--------	------

Layer 1 Mature

Species	%	Average Age	Average Height
1 LW - western larch	67	114	22.5
2 FDI - interior Douglas-fir	33	114	22.5

Crown Closure: 10  
 Stems/ha Total: 225  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

Damage Agent	%	Area
--------------	---	------

Layer 1S Silviculture Layer 1 - uneven aged

Species	%	Average Age	Average Height
1 LW - western larch	75	114	22.5
2 FDI - interior Douglas-fir	25	114	22.5

Crown Closure: 1  
 Stems/ha Total: 50  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

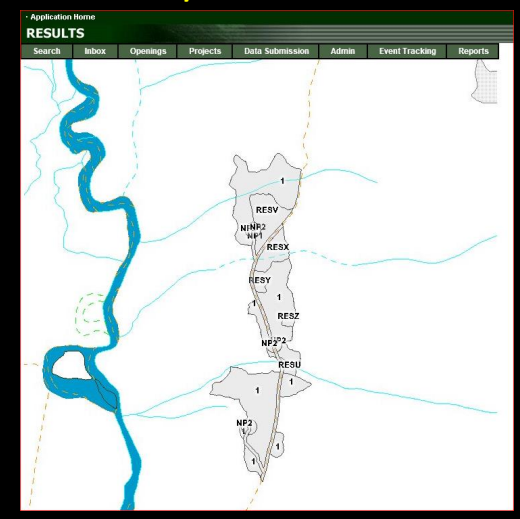
Damage Agent	%	Area
--------------	---	------

Layer 2S Silviculture Layer 2 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	75	87	13.2
2 LW - western larch	25	87	13.2

Crown Closure:  
 Stems/ha Total: 25  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

Damage Agent	%	Area
--------------	---	------



Layer 3 Sapling

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	100	28	2.1

Crown Closure: 5  
 Stems/ha Total: 363  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

Damage Agent	%	Area
--------------	---	------

Layer 3S Silviculture Layer 3 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	100	28	2.1

Crown Closure:  
 Stems/ha Total: 113  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

Damage Agent	%	Area
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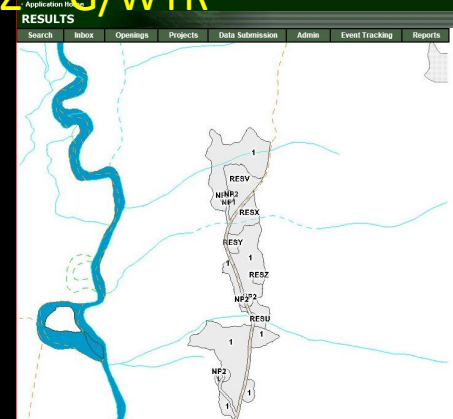
Layer 4 Regen

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	100	6	0.6

Crown Closure: 1  
 Stems/ha Total: 1675  
 Basal Area: Total Well Spaced  
 Well Spaced  
 Free Growing

# Clearcut with Dispersed Multi-Storey

## Opening ID: 1595437 1 SU, CCRES, Poly "1" - D/OTH, Poly "RES U-Z" - G/WTR



**Last Action Date:** 2014-10-10 11:21:00 AM  
**Comments:** No  
**SU:** 3145993 **Polygon :** RESU  
**Gross Area(ha):** 0.2 **Net Area(ha):** 0.2  
**Reference Year:** 2014 **Reserve Type:** G - Group **Reserve Objective:** WTR - Wildlife Tree Retention Goals  
**Site Class:** 18 **Site Index Source:** H - SI from stand before harvest  
**Stocking Status:** MAT - Mature **Stocking Type:** NAT - Natural **SI Species:** FDI - interior Douglas-fir  
**Tree Cover Pattern:** Re-Entry Year:

**Non Mapped Area**  
 Id Area Status Type

**Layer I Inventory Layer**

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	70	83	22.8
2 LW - western larch	20		
3 PLI - lodgepole pine	10		

**Crown Closure:** 60 **Basal Area**  
**Stems/ha Total** 965 **Total Well Spaced** **Well Spaced** **Free Growing**

**Last Action Date:** 2014-10-10 11:21:00 AM  
**Comments:** No  
**SU:** 3145994 **Polygon :** RESV  
**Gross Area(ha):** 2 **Net Area(ha):** 2  
**Reference Year:** 2014 **Reserve Type:** G - Group **Reserve Objective:** WTR - Wildlife Tree Retention Goals  
**Site Class:** 18 **Site Index Source:** H - SI from stand before harvest  
**Stocking Status:** MAT - Mature **Stocking Type:** NAT - Natural **SI Species:** LW - western larch  
**Tree Cover Pattern:** Re-Entry Year:

**Non Mapped Area**  
 Id Area Status Type

**Layer I Inventory Layer**

Species	%	Average Age	Average Height
1 LW - western larch	75	179	27.8
2 FDI - interior Douglas-fir	25		

**Crown Closure:** 60 **Basal Area**  
**Stems/ha Total** 546 **Total Well Spaced** **Well Spaced** **Free Growing**

**Last Action Date:** 2014-10-10 11:21:00 AM  
**Comments:** No  
**SU:** 3145990 **Polygon :** RESZ  
**Gross Area(ha):** 0.2 **Net Area(ha):** 0.2  
**Reference Year:** 2014 **Reserve Type:** G - Group **Reserve Objective:** WTR - Wildlife Tree Retention Goals  
**Site Class:** 18 **Site Index Source:** H - SI from stand before harvest  
**Stocking Status:** MAT - Mature **Stocking Type:** NAT - Natural **SI Species:** FDI - interior Douglas-fir  
**Tree Cover Pattern:** Re-Entry Year:

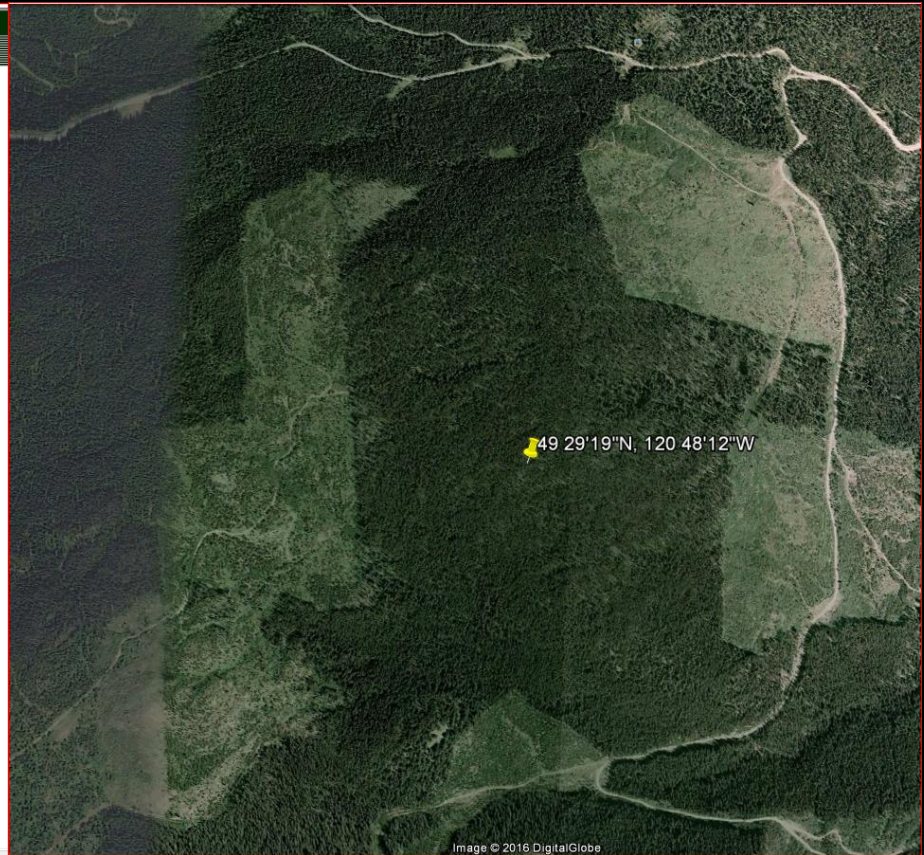
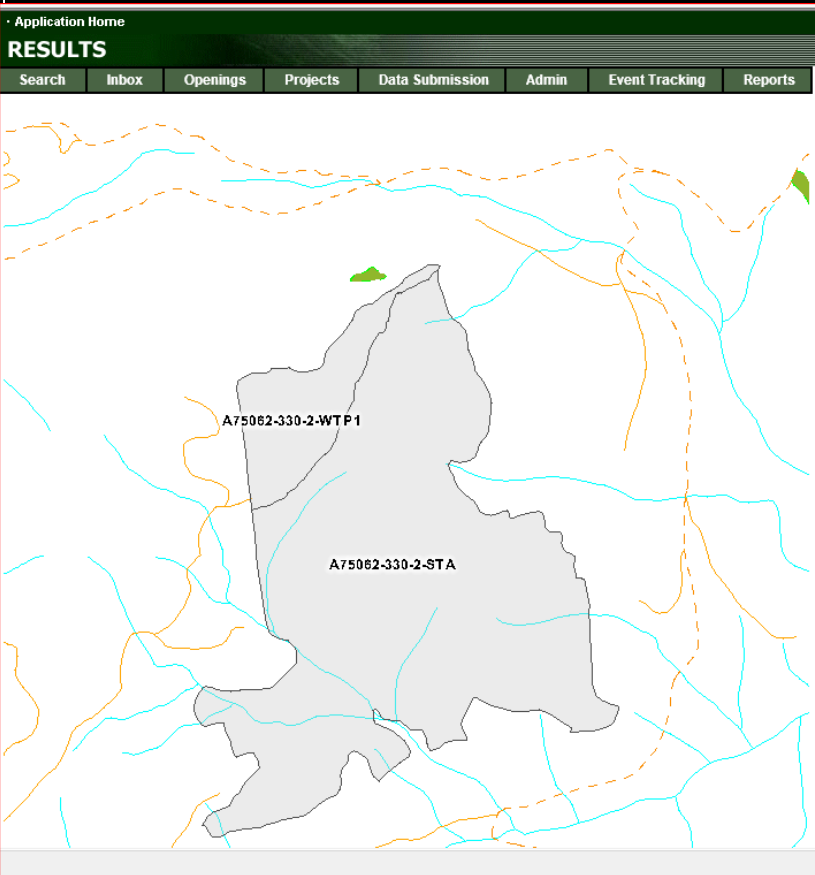
**Non Mapped Area**  
 Id Area Status Type

**Layer I Inventory Layer**

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	70	83	22.8
2 LW - western larch	20		
3 PLI - lodgepole pine	10		

**Crown Closure:** 60 **Basal Area**  
**Stems/ha Total** 974 **Total Well Spaced** **Well Spaced** **Free Growing**

# Clearcut with Dispersed Reserves and Group Reserves – Even-aged





# Clearcut with Dispersed and Group Reserves

Opening ID: 1585115 , 1 SU; CCRES; Poly "STA":D/Bio; Poly "WTP1": G/WTR

SU:	1	Forest Cover ID:	3313246	Polygon :	A75062-330-2-STA
Gross Area(ha):	84.4	Net Area(ha):	82.4		
Reference Year:	2014	Reserve Type:	D - Dispersed	Reserve Objective:	BIO - Biodiversity
Site Class:		Site Index:	17	Site Index Source:	E - SI from Biogeoclimatic Ecosystem Classification
Stocking Status:	IMM - Immature	Stocking Type:	ART - Artificial	SI Species:	PLI - lodgepole pine
Tree Cover Pattern:				Re-Entry Year:	

**Non Mapped Area**

Id	Area	Status	Type
C1	2	NP	UNN

**Layer I Inventory Layer**

Species	%	Average Age	Average Height
1 PLI - lodgepole pine	70	1	0.2
2 SX - spruce hybrid	20		
3 BL - subalpine fir	10		

**Crown Closure:** 3 Basal Area

**Stems/ha Total:** 1266 Total Well Spaced Well Spaced Free Growing

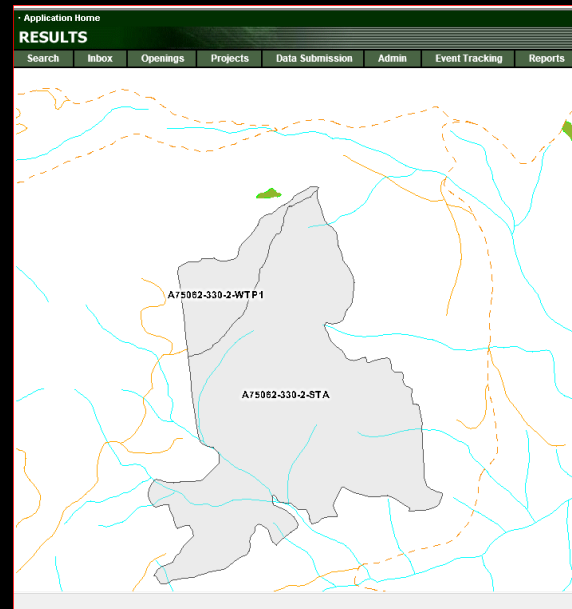
**Damage Agent** % Area

**Layer S Silviculture Layer - even aged**

Species	%	Average Age	Average Height
1 PLI - lodgepole pine	68	1	0.2
2 SX - spruce hybrid	31		
3 BL - subalpine fir	1		

**Crown Closure:** Basal Area

**Stems/ha Total:** Total Well Spaced 1120 Well Spaced 1063 Free Growing



## RESULTS321 - Forest Cover Detail

[Back](#)

[Edit](#)

2 of 2

Last Action Date:	2015-08-23 02:40:33 AM	Comments:	No
SU:	1	Forest Cover ID:	3313247
Gross Area(ha):	11.3	Net Area(ha):	11.3
Reference Year:	2011	Reserve Type:	G - Group
Site Class:		Site Index:	18
Stocking Status:	MAT - Mature	Stocking Type:	NAT - Natural
Tree Cover Pattern:		Re-Entry Year:	

Polygon : A75062-330-2-WTP1

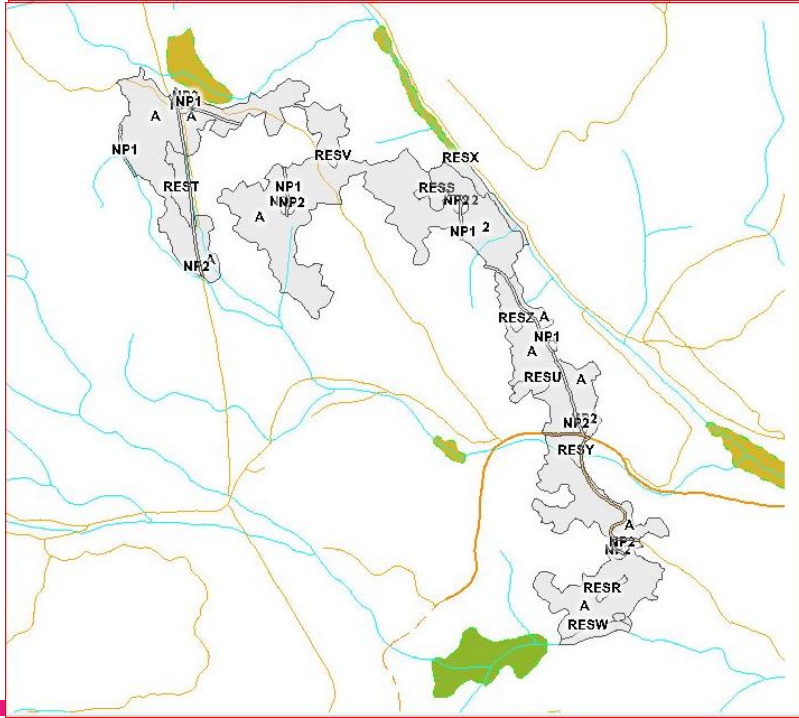
Reserve Objective: WTR - Wildlife Tree Retention Goals

Site Index Source: H - SI from stand before harvest

SI Species: PLI - lodgepole pine

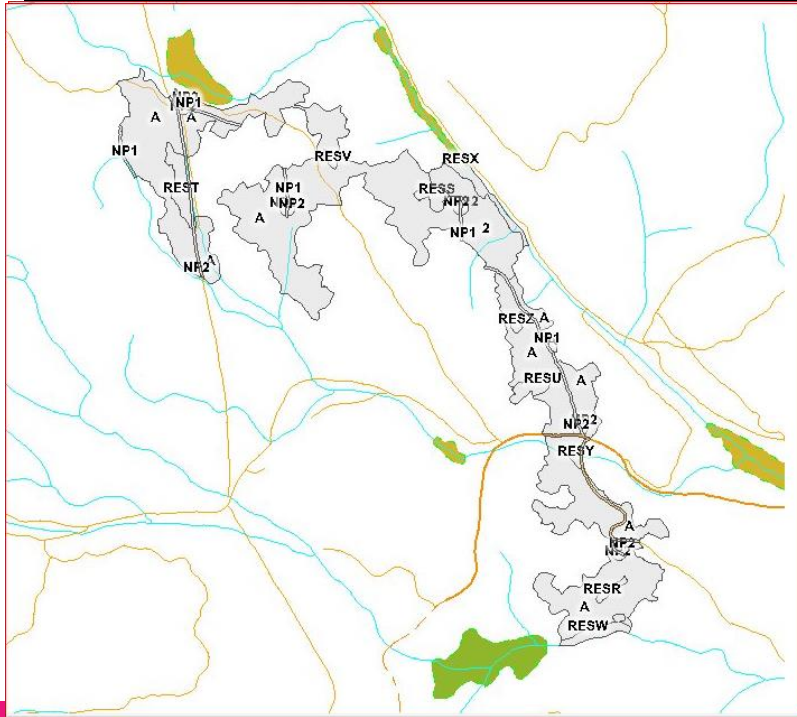


# Clearcut with Reserves - Multi-Layer Example



# Clearcut with Reserves - Multi-Layer Example

Opening ID: 1646238 , 2 SUs, CCRES, Poly "A"-D/OTH, Poly "WTPR-Z"- G/WTR



Last Action Date: 2015-02-20 Comments: [No](#) [Forest Cover Map](#) 20 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code	Stems/ha				
				Gross	Net	Stat	Type			Total	Total Well Spaced	Well Spaced	Free Growing	
2	2			6.5	6.5	NSR	NAT	2014						
1	A		1	71.2	71.2	IMM	NAT	2014	FDI	PY		80		
1	A		1S	71.2	71.2	IMM	NAT	2014	FDI	PY	LW		80	80
1	A		2	71.2	71.2	IMM	NAT	2014	FDI	LW		200		
1	A		2S	71.2	71.2	IMM	NAT	2014	FDI	LW			200	200
1	A		3	71.2	71.2	IMM	NAT	2014	FDI	LW		200		
1	A		3S	71.2	71.2	IMM	NAT	2014	FDI	LW			200	200
1	A		4	71.2	71.2	IMM	NAT	2014	FDI			100		
1	A		4S	71.2	71.2	IMM	NAT	2014	FDI				100	100

NP1				3.3	3.3	NP	RD	2013						
NP2				1.2	1.2	NP	RD	2013						
RESR	I			0.3	0.3	MAT	NAT	2015	FDI	LW	PLI	962		
RESS	I			0.8	0.8	MAT	NAT	2015	FDI	LW	PLI	962		
REST	I			1.7	1.7	MAT	NAT	2015	FDI	LW	PLI	962		
RESU	I			1	1	MAT	NAT	2015	FDI	LW	PLI	962		
RESV	I			0.2	0.2	MAT	NAT	2015	FDI	LW	PLI	962		
RESW	I			1.2	1.2	MAT	NAT	2015	FDI	LW	PLI	962		
RESX	I			1.5	1.5	MAT	NAT	2015	FDI	LW	PLI	962		
RESY	I			0.2	0.2	MAT	NAT	2015	FDI	LW	PLI	962		
RESZ	I			0.3	0.3	MAT	NAT	2015	FDI	LW	PLI	962		

# Clearcut with Reserves – Multi-Layer Example

Opening ID: 1646238 , 2 SUs, CCRES, Poly “A”-D/OTH, Poly “WTPR-Z”- G/WTR

Last Action Date: 2015-02-20 08:17:11 AM  
 Comments: No  
 SU: 1 Forest Cover ID: 3244019 Polygon: A  
 Gross Area(ha): 71.2 Net Area(ha): 71.2  
 Reference Year: 2014 Reserve Type: D - Dispersed Reserve Objective: OTH - Other  
 Site Class: Site Index: 19 Site Index Source: E - SI from Biogeoclimatic Ecosystem Classification  
 Stocking Status: IMM - Immature Stocking Type: NAT - Natural SI Species: FDI - interior Douglas-fir  
 Tree Cover Pattern: 5 - Intimately intermixed units, often with gradational transitions from one to the other. Re-Entry Year:

### Non Mapped Area

Id Area Status Type

### Layer 1 Mature

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	90	80	21
2 PY - ponderosa pine	10	80	23

Crown Closure: 10 Basal Area 10  
 Stems/ha Total 80 Total Well Spaced Well Spaced Free Growing

### Layer 1S Silviculture Layer 1 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	85	80	21
2 PY - ponderosa pine	10	80	23
3 LW - western larch	5	80	23

Crown Closure: Basal Area  
 Stems/ha Total Total Well Spaced 80 Well Spaced 80 Free Growing 80

### Layer 2 Pole

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	80	65	10
2 LW - western larch	20	60	12

Crown Closure: 12 Basal Area 10  
 Stems/ha Total 200 Total Well Spaced Well Spaced Free Growing

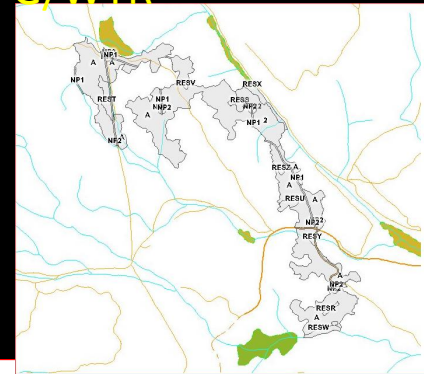
### Damage Agent

### Layer 2S Silviculture Layer 2 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	80	65	12
2 LW - western larch	20	60	15

Crown Closure: Basal Area  
 Stems/ha Total Total Well Spaced 200 Well Spaced 200 Free Growing 200

### Damage Agent



### Layer 3 Sapling

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	80	15	2
2 LW - western larch	20	15	2.5

Crown Closure: 5 Basal Area  
 Stems/ha Total 200 Total Well Spaced Well Spaced Free Growing

### Damage Agent

### Layer 3S Silviculture Layer 3 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	80	15	2.5
2 LW - western larch	20	15	3

Crown Closure: Basal Area  
 Stems/ha Total Total Well Spaced 200 Well Spaced 200 Free Growing 200

### Layer 4 Regen

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	100	6	0.6

Crown Closure: 2 Basal Area  
 Stems/ha Total 100 Total Well Spaced Well Spaced Free Growing

### Damage Agent

### Layer 4S Silviculture Layer 4 - uneven aged

Species	%	Average Age	Average Height
1 FDI - interior Douglas-fir	100	6	0.6

Crown Closure: Basal Area  
 Stems/ha Total Total Well Spaced 100 Well Spaced 100 Free Growing 100

### Damage Agent

# More RESULTS Training

<https://www.for.gov.bc.ca/his/results/training/index.htm>

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- [For Ministry & BCTS](#)
- [Access Request Form](#)

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- [Standards Admin](#)

**Related Links**

- [Corporate Reporting System](#)
- [Electronic Forest Management – e-FM](#)
- [Electronic Submission Framework – ESF](#)
- [FSP Tracking System](#)
- [MapView 4.0](#)
- [SPOT 5 Satellite Image Primer](#)

■ [RESULTS Sharepoint](#)  
Restricted Access

general overview of the application components.

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## List of Core Modules

Type	Topic	Last Updated
Powerpoint	<a href="#">Module 1: Obligation Reporting- Policy and Business Context</a>	Nov 2013
	<a href="#">Policy and Business Context</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 2: Obligation Reporting -Online Entry and Mandatory ESF Conditions</a>	Nov 2013
	<a href="#">Online Entry and Mandatory ESF Conditions</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 3: Obligation Reporting -Submitting by ESF</a>	Nov 2013
	<a href="#">Submitting by ESF</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 4: Obligation Reporting – Standards Unit Modifications Overview</a>	Nov 2013
	<a href="#">Standards Unit Modifications Overview</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 5: Obligation Reporting – Standards Unit Modifications – ESF</a>	Nov 2013
	<a href="#">Standards Unit Modifications - ESF</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 6: Obligation Reporting – Standards Unit Modifications – Online</a>	Nov 2013
	<a href="#">Standards Unit Modifications - Online</a> - Recording	Oct 2014
Powerpoint	<a href="#">Module 7: Obligation Reporting – Ministry Approver Processing</a>	Nov 2013
	<a href="#">Obligation Reporting - Ministry Approver Processing</a> - Recording	Oct 2014

**Special Topics:**

Type	Topic	Last Updated
Powerpoint	<a href="#">Government Funded Activities – Juvenile Spacing Reporting</a>	Dec 5, 2012
Powerpoint	<a href="#">Carbon Offset Reporting</a>	Oct 2013
Powerpoint	<a href="#">Forest for Tomorrow</a>	Jan 2015
Video	<a href="#">Forest for Tomorrow</a>	